

## PATENT ABSTRACTS OF JAPAN

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## (54) RECORDING MEDIUM FOR AUTOMATIC ADAPTATION AND CONSTRUCTION OF SOFTWARE

PROBLEM TO BE SOLVED: To automatically adapt and construct software for processing data by understanding a meaning of data input without awaking to description of a program language (COBOL, FORTRAN, etc.), by simply inputting the data.

[illegible]

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CLAIMS

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## [Claim(s)]

[Claim 1]A work sheet file part which saved [ various ] business work sheets including at least one business logic term which expresses a meaning on business with the minimum unit, Business work sheets corresponding to user choice information are displayed on a display among the above-mentioned business work sheets, When data is inputted into said data input part as software for rule setting out which shows a data input part of the business work sheets concerned with an applicable business logic term, A business data file part which stores the data concerned as rule setting data, When said application data is inputted as the 1st use software for inputting application data corresponding to said rule setting data stored in said business data file, Software used according to said business logic term corresponding to this application data is determined, A recording medium which recorded the 2nd use software for applying business logic in order for this software to perform data processing using said application data and said rule setting data corresponding to this and to obtain that result.

[Claim 2]A recording medium for the software automatic application according to claim 1, wherein said 2nd use software is software which performs maximum check processing using the above-mentioned application data and rule setting data corresponding to this, and construction.

[Claim 3]A recording medium for the software automatic application according to claim 1, wherein said 2nd use software is software which performs minimum check processing using the above-mentioned application data and rule setting data corresponding to this, and construction.

[Claim 4]A recording medium for the software automatic application according to claim 1, wherein said 2nd use software is software which performs existence check processing using the above-mentioned application data and rule setting data corresponding to this, and construction.

[Claim 5]A recording medium for the software automatic application according to claim 1, wherein said 2nd use software is software which performs unit check processing using the above-mentioned application data and rule setting data corresponding to this, and construction.

[Claim 6]A recording medium for the software automatic application according to claim 1, wherein said 2nd use software is software which performs editing processing using the above-mentioned application data and rule setting data corresponding to this, and construction.

[Claim 7]A recording medium for the software automatic application according to claim 1, wherein said 2nd use software is software which performs total comparison processing using the above-mentioned application

data and rule setting data corresponding to this, and construction.

[Claim 8]A recording medium for the software automatic application according to claim 1 currently preparing as said business logic term by data for a display corresponding to a language of two or more countries, and construction.

[Claim 9]A recording medium for the software automatic application according to claim 1 characterized by including software for transmit/receive control as software for displaying data on said display, and construction.

[Claim 10]A recording medium for the software automatic application according to claim 1, wherein a procedure means to perform a security check which requires a user's keystroke of it when inputting data into said software for rule setting out from means used is formed, and construction.

[Claim 11]A recording medium for the automatic application according to claim 1, wherein software for rule setting out which displays said worksheet on said display is provided with a manipulation routine on which a worksheet of two or more kinds is displayed simultaneously, and construction.

[Claim 12]a case where data is inputted into a data input part of said two or more kinds of worksheet -- an order of the data processing -- beforehand -- texture \*\*\*\*\* -- a recording medium of an according to claim 11 software automatic application [ which is characterized by things ], and construction field sake.

[Claim 13]A recording medium for automatic application of the software according to claim 1, wherein a rule-setting-data input part for inputting an application day into said worksheet as a business logic term which sets up a business rule exists, and construction.

[Claim 14]A recording medium for automatic application of the software according to claim 13, wherein an application opening day and an application end date exist and each data input part exists as said application day, and construction.

[Claim 15]A recording medium for automatic application of the software according to claim 13 currently programming so that the manipulation routine which requires an input of a cryptographic key under environment of said software for rule setting out accompanies and operates, in order to input said application day, and construction.

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[Translation done.]

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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention]If data is inputted simply, without being conscious of description of the program language (COBOL, FORTRAN, etc.) which met the flow chart currently carried out from the former when a businessman creates software, this invention, It is related with the device and software recording medium which understand the meaning of this data input. And after understanding the meaning of the inputted data, according to the meaning, the software for processing input data is chosen automatically, and it is related with the recording medium for the automatic application of applicable software, and construction.

[0002]

[Description of the Prior Art]In creating software conventionally, a flow chart designs the routine which applies the software concerned, program language is described along with this flow chart, and it is coding program language to the machine language after that.

[0003]however, when it seems that he would like to change setups [ in / that it is this method / software-data processing ], a date, etc., on the whole, program language is improved each time, and if there is no correction, it will not become. For this reason, days start the design variation of a program and the work by a specialist is required for it.

[0004]

[Problem(s) to be Solved by the Invention]If it is going to change the conventional contents of processing and conditions of a program as described above, even if it is an easy change, it is expensive, and days start and the work by a specialist is required.

[0005]Then, if data is inputted simply, without being conscious of description of program language (COBOL, FORTRAN, etc.), this invention, It aims at understanding the meaning of this data input and providing the recording medium for automatic application, the automatic application of the software which can be built, and construction for the software for that data processing.

[0006]

[Means for Solving the Problem]A work sheet file part which saved [ various ] business work sheets which include at least one business logic term which expresses a meaning on business with the minimum unit in order that this invention may attain the above-mentioned purpose, Business work sheets corresponding to user choice information are displayed on a display among the above-mentioned business work sheets, When

data is inputted into said data input part as software for rule setting out which shows a data input part of the business work sheets concerned with an applicable business logic term, A business data file part which stores the data concerned as rule setting data, When said application data is inputted as the 1st use software for inputting application data corresponding to said rule setting data stored in said business data file, Software used according to said business logic term corresponding to this application data is determined, This software performed data processing using said application data and said rule setting data corresponding to this, and in order to obtain that result, a recording medium which recorded the 2nd use software for applying business logic is realized.

[0007]According to the device using the above-mentioned recording medium, rule setting data should just be inputted into a data input part incidental to a business logic term on business work sheets at the time of program design. Then, based on a meaning which a business logic term has, software for processing rule setting data and this rule setting data as criterion data is matched. Therefore, it is more suitable to call it rule-setting-data input operation for carrying out business rather than program design.

[0008]Then, when application data corresponding to the rule setting data concerned is inputted at the time of use, selection execution of the application program is carried out automatically, and a result which carries out a business definition and to process can be obtained.

[0009]

[Embodiment of the Invention]Hereafter, this embodiment of the invention is described with reference to Drawings.

[0010]Drawing 1 is the 1 embodiment of this invention. 100 is a computer body and comprises hardware and operation system (OS). 500 is a display part, 1000 is a new working device in connection with this invention, and this portion comprises logic block by which comprised a recording medium mentioned later and its drive device, or the IC form was carried out.

[0011]Drawing 2 is the concrete 1 embodiment of this invention. 100 is a computer body and comprises hardware and operation system (OS). The business logic application part 200 is carried to this computer body 100. The business logic application part 200 comprises the business operation system (business OS) 201 and the rule adaptability test part 202.

[0012]This business operation system (business OS) is the beforehand regular software, for example, comprises common software the object for tic [ existence ], the object for a maximum check, for a minimum check, and for total processing.

[0013]The business rule adaptability test part 202 is a judgment part which judges which software is used, when performing data processing mentioned later and utilizing the software of business operation system based on the business logic term of a business WAKUFU sheet.

[0014]Business work sheets, a business logic term, and rule setting data are stored in the business data file 400. Various kinds of worksheets used on the ledger required of business for rule setting out, a check, a plan, and circulation business, such as a check, a list, an order slip, and an approval check, are stored in this business data file 400 as data. This worksheet includes at least one above-mentioned business logic term which expresses the meaning on business with the minimum unit. And a data input part exists corresponding to this business logic term. When a plan and the worksheet for rule setting out are used at the time of program design and data is inputted into a data input part, the input data turns into rule setting data. When

using a computer on business and data is inputted into the data input part of worksheets, such as a rule written confirmation and an estimate, after rule setting data was inputted, this data turns into application data.

[0015]It is a display, and when building a program, or when using a program after it generates a program, 500 displays a worksheet, and it is used in order to check data input or to check a program manipulation result. To construction of a program, and the utilization time of a program, while answering the operation from a final controlling element, and the comprehensive Management Department's 600 operating and performing access and starting of data to peripheral blocks, the timing of input and output of data, etc. will be controlled.

[0016]To determine any of the kind of worksheet are displayed, the controlling-display part 300 which answers an operational input via the comprehensive Management Department 600 has decided, and it has read from the business data file 400. The data which accompanies the read worksheet and it is also read. Data and the worksheet which were read carry out through [ of the comprehensive Management Department 600 ], and are displayed on the display 500.

[0017]As shown in the above-mentioned worksheet at drawing 3, for example, the business logic term is described and data is described to the blank section (data input part) corresponding to this business term. This example is a worksheet in the case of setting up a credit limit to a business guest. The title called "description of a customer's credit limit" as a title is set up. If operation called program construction start (or business rule setting out) from the final controlling element 501 is performed, for example, it requests a menu in reading the worksheet of this title, that title menu will appear. And with reference to a title menu, the thing which display a worksheet on a display and to do can be performed by clicking the same title "description of a customer's credit limit" concerned. The comprehensive Management Department 600 answers the input from the final controlling element 501 while carrying out by a system rising.

[0018]Since data processing contents were decided according to the item of "description a customer's credit limit", the business logic application part 200 has related \*\*\*\*\* data for the software which performs the data processing, and a worksheet.

[0019]In a displaying condition like drawing 3 A, moreover a customer number, a company name, etc. are inputted, there is a column of an application opening day, an application end date, credit, and an application stop, and this required data is described. Application opening day 97/06/06, and the credit 200,000,000 are described by this example, and the column of the application end date and the application stop is not described. When not described, it means that data processing about this business logic item is not performed automatically.

[0020]The worksheet for creating the item list of a customer's selling merchandise is also stored. Thereby, various kinds of data (these will be called business rule information set) of a customer can be built.

[0021]After description of rule setting data required for a required worksheet finishes, the display of an end of a screen is clicked. Then, each worksheet is stored in the business data file 400. Thus, since data processing required on business was beforehand decided by the kind (contents to mean) of the rule setting data by inputting data, the program to apply will be decided to each data.

[0022]For example, in order to check a customer to the credit mentioned above at the time of actual use, when application data is inputted, it must be judged whether the application data is suitable. Then,

application data is compared to credit (business information set), and maximum check processing in which it is judged whether application data is over the value of a business rule information set is performed.

[0023]That is, by this invention, the application software for business was thoroughly divided into business logic and program logic (computer logic) in accordance with the fixed standard, and the composition of the device is considered. The item expressed as business work sheets (business papers) by these as a fixed standard here is targeted for the extraction separation of a check, the data, etc. as a computer screen and a computer list.

[0024]The commercial transaction know how system data constellation in these (element of the meaningful minimum unit of determining the contents of the commercial transaction contract), It classifies into the item of a mission-critical task system data constellation (element of the meaningful minimum units, such as an in-company rule for carrying out a contract), and a calculation system data constellation (meaningful minimum units, such as an accounting rule based on the commercial law, tax law, and the Securities Exchange Act), and matches with the application software which should process these. That is, they are a maximum, a minimum check, an existence check, and total processing.

[0025]Like the above, by carrying out separation arrangement, as application software, only the mechanism of processing these items remains as program logic, and this is business OS. And if the contents to mean understand the item on the above-mentioned business, what it remains in will be only mere data. These are business data.

[0026]As a result, the software (business OS) stored in the business logic application means, Application data (data inputted when this invention device is used at a actual commercial transaction etc.), It is a software group which performs maximum check processing, minimum check processing, existence check processing, and total processing using the business rule information set (beforehand saved as a database) corresponding to this.

[0027]It returns and explains to drawing 3. Construction of the database using a worksheet is performed like drawing 3 (A) mentioned above. The above-mentioned example explained the example which sets up credit to a certain correspondent firm. In addition, the data of the list database of a customer's company, the database of the selling merchandise of the customer concerned, the unit price of each selling merchandise, quantity information, etc. can also be built.

[0028]Drawing 3 (B) shows the example of the application screen when there is an order received from customer ABCDE. In this case, an application worksheet will be read as a worksheet and the information which came to hand as shown in a figure will be inputted into a required part. That is, they are a customer code, a customer name, a bar code, a unit price, quantity, the amount of money for ordering, etc. Such data is inputted and it is ordered a start. The controlling-display part 300 displays the title of an application worksheet by switching the worksheet of the above-mentioned application screen to application mode in the final controlling element 501, and requiring the menu of an application screen. That title will be clicked if a "order received" exists in the title of hope, and this case.

[0029]The application screen of drawing 3 (B) can be obtained on the display 500 by this operation. After this, a user will input data. If a reference start is operated here, judgment (maximum check processing) whether the amount of money for ordering is over credit will be performed. As for the software at this time, the business logic application part 200 will choose and perform software for maximum check processing

automatically by recognizing the item called amount of money for ordering. It will be displayed on the display 500 as the obtained data "is over the credit limit" via the controlling-display part 300 and the comprehensive Management Department 600 as a result of this processing. [ "it being in a credit limit", or ]

[0030]Drawing 4 has an association table of a worksheet, the business logic term described by each worksheet, the worksheet group data in which this business logic term exists, and application software. By having this table, that correspondence business logic term when the worksheet accessed on the present display 500 is recognized and data input occurs will be recognized, and application software will be determined. The data of the result obtained with the application of software will return as a screen on a display again. The table of drawing 4 may be described by the block [ which / of the business logic application part 200 or the business data file 400 ].

[0031]The above-mentioned embodiment showed the fundamental principle of this invention. This invention is not limited to the above-mentioned embodiment, and a business logic term is shown on behalf of a mere part. It becomes a judgment source of the software which all the items of classes, such as various kinds of checks, a list, an approval check, correspond to the business logic term of this invention, and a business logic application part chooses.

[0032]Drawing 5 is a lineblock diagram showing this invention concretely further.

[0033]Drawing 2 and identical codes are given to the block shown in drawing 2, and the corresponding portion. In drawing 2, a worksheet and the data given to the item described by this worksheet classified and showed the data of the business data file 400.

[0034]In drawing 5, it divides according to the character of data further. As character of data, there are simple data in which rewriting etc. are performed frequently, and semipermanent data, in this figure, simple data is brought together in a business data recording part, and semipermanent data is brought together in the CDC Records Department.

[0035]The data of a business data recording part is classified according to a kind, and the seed division is carried out at the commercial transaction Records Department, the Records Department of operating employment, and the Records Department of rules, such as various regulations.

[0036]When rewriting of these data is performed, the result remains as record (history).

[0037]As record of a commercial transaction, record of what kind of dealings to have conducted with what company when remains. As record of operating employment, the history data on record of the data of progress of achievements and the history data of accounting and personnel management is recorded. As record of a business rule, the data the data [ for various kinds of regulations ], for example, change of work rules, back and before change and the data change before of the credit limit a customer's company and after change are stored. The information on purchase quantity change of the handling goods of a customer's company, etc. are recorded. It is used as the Records Department of the value of a case as the marketing specialist discounted and sold special selling merchandise, for example.

[0038]The data of the CDC Records Department is also classified according to a kind, and the seed division is carried out at Records Department parts, such as the Records Department, such as the Records Department of a rule applicable rule, and a screen layout, and a list layout. As drawing 4 explained, for example, the table showing the correspondence relation of the software relevant to the logic term of a worksheet and this logic term is described by the rule application part.



[0039]In the above-mentioned explanation, in order to function intelligibly, the separate block shows the comprehensive Management Department 600, the business logic application part 200, and the controlling-display part 300, but as for these, it is needless to say that it may be unified.

[0040]The rule-setting-data input part for inputting an application day exists as a business logic term which sets a business rule as a worksheet in the above-mentioned system. As an application day, an application opening day and an application end date exist, and each data input part exists. In order to input an application day, in a rule setting means, a means to require the input of a cryptographic key accompanies and it operates.

[0041]When it seems that he would like to suspend import of some goods from two or more companies which suited in the customer until now when such a function existed, and the company of a customer when it seems that him would like to interrupt dealings, the final controlling element 501 is operated immediately and rule setting data can be changed. For this reason, an employment speed due to occupational cases can be accelerated, and it is reliable. Also when the rate of foreign currency changes, it can respond immediately by changing rule setting data.

[0042]In this system, since the business rule data which recorded the past rule exists, calculation of the data which came to hand at the past rate now can also be performed easily.

[0043]After drawing 6, association tables, such as a screen which shows the concrete table on the business further provided in the business logic application part 200, and is used with each disposal of business affairs and a work breakdown, a ledger which records data, and ledgers, are made intelligible. A disposal-of-business-affairs standard is shown in drawing 6 thru/or drawing 17, and one by one from the column of \*\*\*\* Computer disposal of business affairs (a disposal-of-business-affairs minimum unit standard / computer standard operation procedure), The column of the slip kind (a reissue-of-vouchers standard / screen design standard) which records rule setting-out business, quotient style business, a physical distribution service, golden style business, manufacture business, and a mission-critical task, the ledger and ledgers which record a mission-critical task, a commercial law standard, accounting standards, a taxation business standard, and a \*\*\*\* standard is provided. A round mark means a flag here.

[0044]For example, the following is meant if NO.17 of drawing 6 is seen. The contents of processing in the case of establishing the transaction account of a sale place are described here. Performing this processing will perform rule setting-out business. In order to perform this processing, the item called establishment of the transaction account of a sale place out of a menu will be clicked. Then, in order to perform account establishment, the establishment check of a sales transaction account is displayed on a screen. The data inputted and described while looking at a screen in this check is described by the sales customer ledger (file) as sales customer data. When such data is extended, a commercial law standard, accounting standards, a taxation business standard, and a \*\*\*\* standard will be applied. In drawing 8, if No.79 is seen, the following meanings are described. It is the shipping instruction of selling merchandise and this is a class of quotient style business. This data will be described by the shipping instruction ledger, if the shipping instruction document of selling merchandise is read on a screen and the data input (permission, quantity, etc.) by an operator occurs, in issuing directions. Since stock etc. are calculable using this data, the software to be used can be defined beforehand. For example, when processing No.111 of drawing 9, it can use.

[0045]Thus, by building the table of a disposal-of-business-affairs standard, the database in connection with

each business can be built. And when treating these data, the software used automatically can be decided.

[0046]When performing ordering business and ordering business, the contents (rule) by which the device of this invention operates are table-ized in drawing 18 thru/or drawing 21, and are shown in it. Drawing 18 and drawing 19 show one table, and drawing 20 and drawing 21 show one table. This table shows the logic of a disposal-of-business-affairs rule and a disposal-of-business-affairs rule, the application item of a disposal-of-business-affairs rule, and the inspection item sequentially from the left column. For example, when the check of the purchase goods of No.1 of drawing 18 is chosen from a menu, this is conducting the inspection which can purchase purchase goods. On a screen, the screen for inputting the name and code of purchase goods appears. If suitable data is inputted looking at this screen, an inspection will be started by the basis of judgment of the business logic application part 200. The inspection of the existence of a customer and a customer organization is performed automatically, looking at a database as an inspection. When the check of the number of inventory fitness of the purchase goods of No.6 and the propriety of inventory figures are chosen from menus, the fitness quantity of stock of purchase goods will be inspected. An ordering number is inputted into the item called order of the purchase goods of an item which appeared on the screen at this time. Then, the check of an inventory limit number is performed automatically. This is a maximum check of whether stock is over the ordering number. A goods' in question existence check is performed before that.

[0047]Drawing 22 and drawing 23 show the table of the business rule applied when performing an order order received and checking a person's in charge existence. One table is built by drawing 22 and drawing 23.

[0048]In the table mentioned above, although explained on behalf of the part, it is similarly used about other items.

[0049]Next, operation of the user at the time of introducing the device of this invention will be explained briefly.

[0050]A new working device is built by the data control type business application recorded, for example on the recording medium. Then, this application is installed in a computer body using a setup program.

[0051]Drawing 24 shows operation in the preparatory step which uses this invention device on business. Management of an overall unit is performed at the comprehensive Management Department 600, and the order of operation of each unit, data search, data output, etc. are controlled.

[0052]Processing of the item where the flag stands on the column of rule setting-out business among the tables shown after drawing 6 is performed at the time of a preparatory step. When operation is first performed through a final controlling element and it uses it on an operating aspect of practical use, the operating employment screen (worksheet) for preparing a data file from an employment preparation menu is displayed on a display (Step a1, a2). Next, looking at a screen, a business information set is inputted into the blank section of a suitable item (Step a3), and a business-use data file is built. When setting up work rules, it will realize by the same manipulation routine.

[0053]Drawing 25 shows the operation instances in the case of using the database (CDC) built as mentioned above. A transaction processing menu is displayed, and if the item which is applicable from the inside is chosen (Step b1), it will change to the disposal-of-business-affairs screen (Step b2) corresponding to the item. Here, a user inputs required using data, looking at a disposal-of-business-affairs screen (b3). Then, corresponding to the kind of the using data, based on the table shown in drawing 6 thru/or drawing 23, the

business logic application part 200 determines required software mentally, and displays the processing result (Step b4). A user will redo, seeing this result or comprehension will be judged (Step b5).

[0054]Drawing 26 shows the procedure used when it is necessary to change work rules. Operation of a work-rules change key will perform the keystroke demand of a password (c1, c2). this -- anyone -- although -- it is because it is set up not change work rules freely. When there is an input of a password, like the time of being previous preparation, a preparation menu will be displayed and a user will choose from this inside the item which wants to change a rule (Step c3). And if a work-rules setting screen appears, the input of condition data will be performed into a required portion (Step c5).

[0055]Next, some examples of use are described and seen.

[0056](1) Advance preparations of the Example (a) ordering business in the case of inspecting a sales customer's account on ordering business -- A sales customer's registration is performed in this preparation.

[0057](b) Actual ordering operating time -- The inspection of whether advanced registration of the sales customer is carried out is conducted.

[0058](2) Advance preparations of the Example (a) ordering business in the case of inspecting credit on ordering business -- A sales customer's registration, registration of a sales customer's credit.

(b) Actual ordering operating time -- The inspection of whether the sum total of a sales customer's amount of an account receivable and order volume is over credit is conducted.

[0059](3) Advance preparations of the Example (a) ordering business in the case of inspecting a person's in charge official authority on ordering business -- A person's in charge registration and registration of the upper limit amount a person's in charge sales authority.

[0060](b) Actual ordering operating time -- It is inspected whether the sum total of order volume is over the upper limit amount of a person's in charge sales authority.

[0061]This invention is not limited to the above-mentioned embodiment, and various kinds of embodiments are possible for it.

[0062]Drawing 27 has connected between the display 500 and the new working devices 1000 with the data-communications receiving sets (modem) 701 and 702. If it does in this way, processing of business data and setting out of a business rule can be performed through a network from a remote area. In this case, the software for controlling receiving equipment will be installed in the hardware of a recording medium or a new working device.

[0063]Drawing 28 shows that it is prepared in the language of two or more countries as a business data file as a language of the screen which appears on the term and display. If it has such composition, the thing which will be done in each country and to do is possible for this system. Of course, the language choice function is provided at the comprehensive Management Department 600 in this case, and the user can set up language through the final controlling element 501.

[0064]This invention is not limited to above-mentioned working example, and the function on which two or more displays 500 are made to display a business-use processing screen (worksheet) etc. is also provided with it in the controlling-display part 300. That is, it is also possible to process displaying and comparing the checks 1, 2, and 3, as shown in drawing 29 (A). When data is inputted into the data input part of a worksheet, the priority of the data processing may be decided beforehand and at least processing order may be made to be decided by operation. As shown in drawing 29 (B), of course, two or more items may exist in

a check as a data input part. Also in this case, the user could be made to decide a data-processing order, and a data-processing order could be decided automatically. Although it is natural, in this system, data processing was not performed and the portion without data input is come.

[0065]The example of use of the device of this invention is explained further.

[0066]The rule setting screen in the case of performing rule setting out for an existence check is shown in drawing 30 (A), and the example of the application screen for an existence check is shown in drawing 30 (B).

In a rule setting screen, there is an item of a customer code, a customer name, a transaction start day, a transaction end day, and an application stop. Now, suppose that the order No, date of order 95/06/06, and the customer code 0300 were inputted in an application screen. Then, it exists in a data file, since a transaction start day is also a suitable range, this customer can order, and that customer's information, a bar code, a trade name, etc. are displayed. When a customer does not exist or the transaction end day has passed at this time, an alarm display or a beep sound is outputted.

[0067]The rule setting screen in the case of performing rule setting out for the maximum check of a person's in charge sales amount authority is shown in drawing 31 (A), and the example of the application screen for a maximum check is shown in drawing 31 (B). In a rule setting screen, there is an item of a person-in-charge code, an application opening day, an application end date, sales amount authority, and an application stop. Suppose that the person in charge inputted order date 97/01/[ the person-in-charge code 95010 and ] 30, a customer X company, a bar code, a trade name, quantity, a unit price, etc. now in the application screen of an order received. Then, in an application screen, total software carries out autonomous working and computes the total amount. After that, the software for a check operates and it is judged whether an application day is suitable in whether it is in sales amount intra vires again. Altogether, since it is suitable, nothing appears that it is an example of a figure, it twists and warning does not appear.

[0068]The rule setting screen in the case of describing goods delivery business days and performing rule setting out is shown in drawing 32 (A), and the example of the application screen for a minimum check is shown in drawing 32 (B). In a rule setting screen, there is an item of a bar code, a trade name, an application opening day, an application end date, delivery necessary days, and an application stop. Suppose that the person in charge inputted order date 97/07/07, delivery date 97/07/10, a bar code, a trade name, quantity, and a unit price now in the application screen of an order received. In this case, a bar code is checked and order date +two days (delivery necessary days) are calculated. In this case, it is set to 97/07/09. On the other hand, the delivery dates which the user wished are 97/07/10. Therefore, in this case, it is minimum check processing and becomes the judgment of ordering permission.

[0069]The rule setting screen which performs rule setting out of the sales set of goods as an example of a unit check is shown, the example of the application screen of an order received is shown in drawing 33 (B), and it is in drawing 33 (A). In a rule setting screen, there is an item of a bar code, a trade name, an application opening day, an application end date, a sales set, and an application stop, and data is inputted into each.

[0070]Now, in an application screen, an order received is performed and suppose that order date 97/03/03, the bar code 4531213, the quantity 100, etc. were inputted. Then, in this case, since quantity is the multiple 100 of 50, it serves as a judgment of ordering permission.

[0071]It belongs to editing processing at drawing 34 (A), and the rule setting screen for describing the goods

unit price according to quantity is shown. The example of the application screen of an order received is shown in drawing 34 (B). In a rule setting screen, there is an item of a bar code, a trade name, an application opening day, an application end date, the quantity range, a unit price, and an application stop.

[0072]Now, suppose that order date 97 / 06/01 were inputted, the bar code 4531213 was inputted, and 250 quantity was inputted in an application screen. Then, an order can be received satisfactorily in this case and, in the case of 205 quantity, according to rule setting data, a unit price is 90 yen. Therefore, the data called this 90 is read and it is indicated by edit at the column of a unit price. And a calculation function works, the operation of 90x250 is performed, and the display of 22,500 is performed in the column of the amount of money.

[0073]An above-mentioned rule setting screen and application screen only showed an example, and various kinds of modification implementation is possible for this invention.

[0074]Although the new working device 1000 was installed in the computer system by recording media, such as an optical disc, and being explained by the above-mentioned explanation as that by which each manipulation routine is built, it does not restrict to this. New working device 1000 self may be built considering the business logic application part 200, the controlling-display part 300, and the comprehensive Management Department 600 as hardware. The business data file 400 may also comprise a hardware memory, and may comprise a recording medium which only this portion can detach and attach freely, for example, a disk. When attachment and detachment of a business data file part were enabled and change correction of the design and layout of a worksheet is made, it can transpose to a new thing.

[0075]  
[Effect of the Invention]understanding the meaning of this data input, if data is inputted simply, without being conscious of description of program language (COBOL, FORTRAN, etc.) according to this invention as explained above -- the software for that data processing -- automatic application -- and it can build. According to an information set input, answering processing becomes possible on the same day, and reexamination and correcting work of software become entirely unnecessary. \*\*.

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[Translation done.]

\* NOTICES \*

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TECHNICAL FIELD

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[Field of the Invention]If data is inputted simply, without being conscious of description of the program language (COBOL, FORTRAN, etc.) which met the flow chart currently carried out from the former when a businessman creates software, this invention, It is related with the device and software recording medium which understand the meaning of this data input. And after understanding the meaning of the inputted data, according to the meaning, the software for processing input data is chosen automatically, and it is related with the recording medium for the automatic application of applicable software, and construction.

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**PRIOR ART**

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[Description of the Prior Art]In creating software conventionally, a flow chart designs the routine which applies the software concerned, program language is described along with this flow chart, and it is coding program language to the machine language after that.

[0003]however, when it seems that he would like to change setups [ in / that it is this method / software-data processing ], a date, etc., on the whole, program language is improved each time, and if there is no correction, it will not become. For this reason, days start the design variation of a program and the work by a specialist is required for it.

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## EFFECT OF THE INVENTION

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[Effect of the Invention]understanding the meaning of this data input, if data is inputted simply, without being conscious of description of program language (COBOL, FORTRAN, etc.) according to this invention as explained above -- the software for that data processing -- automatic application -- and it can build. According to an information set input, answering processing becomes possible on the same day, and reexamination and correcting work of software become entirely unnecessary. \*\*.

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**TECHNICAL PROBLEM**

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[Problem(s) to be Solved by the Invention]If it is going to change the conventional contents of processing and conditions of a program as described above, even if it is an easy change, it is expensive, and days start and the work by a specialist is required.

[0005]Then, if data is inputted simply, without being conscious of description of program language (COBOL, FORTRAN, etc.), this invention, It aims at understanding the meaning of this data input and providing the recording medium for automatic application, the automatic application of the software which can be built, and construction for the software for that data processing.

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[Translation done.]

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**MEANS**

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[Means for Solving the Problem]A work sheet file part which saved [ various ] business work sheets which include at least one business logic term which expresses a meaning on business with the minimum unit in order that this invention may attain the above-mentioned purpose, Business work sheets corresponding to user choice information are displayed on a display among the above-mentioned business work sheets, When data is inputted into said data input part as software for rule setting out which shows a data input part of the business work sheets concerned with an applicable business logic term, A business data file part which stores the data concerned as rule setting data, When said application data is inputted as the 1st use software for inputting application data corresponding to said rule setting data stored in said business data file, Software used according to said business logic term corresponding to this application data is determined, This software performed data processing using said application data and said rule setting data corresponding to this, and in order to obtain that result, a recording medium which recorded the 2nd use software for applying business logic is realized.

[0007]According to the device using the above-mentioned recording medium, rule setting data should just be inputted into a data input part incidental to a business logic term on business work sheets at the time of program design. Then, based on a meaning which a business logic term has, software for processing rule setting data and this rule setting data as criterion data is matched. Therefore, it is more suitable to call it rule-setting-data input operation for carrying out business rather than program design.

[0008]Then, when application data corresponding to the rule setting data concerned is inputted at the time of use, selection execution of the application program is carried out automatically, and a result which carries out a business definition and to process can be obtained.

[0009]

[Embodiment of the Invention]Hereafter, this embodiment of the invention is described with reference to Drawings.

[0010]Drawing 1 is the 1 embodiment of this invention. 100 is a computer body and comprises hardware and operation system (OS). 500 is a display part, 1000 is a new working device in connection with this invention, and this portion comprises logic block by which comprised a recording medium mentioned later and its drive device, or the IC form was carried out.

[0011]Drawing 2 is the concrete 1 embodiment of this invention. 100 is a computer body and comprises hardware and operation system (OS). The business logic application part 200 is carried to this computer

body 100. The business logic application part 200 comprises the business operation system (business OS) 201 and the rule adaptability test part 202.

[0012]This business operation system (business OS) is the beforehand regular software, for example, comprises common software the object for tic [ existence ], the object for a maximum check, for a minimum check, and for total processing.

[0013]The business rule adaptability test part 202 is a judgment part which judges which software is used, when performing data processing mentioned later and utilizing the software of business operation system based on the business logic term of a business WAKUFU sheet.

[0014]Business work sheets, a business logic term, and rule setting data are stored in the business data file 400. Various kinds of worksheets used on the ledger required of business for rule setting out, a check, a plan, and circulation business, such as a check, a list, an order slip, and an approval check, are stored in this business data file 400 as data. This worksheet includes at least one above-mentioned business logic term which expresses the meaning on business with the minimum unit. And a data input part exists corresponding to this business logic term. When a plan and the worksheet for rule setting out are used at the time of program design and data is inputted into a data input part, the input data turns into rule setting data. When using a computer on business and data is inputted into the data input part of worksheets, such as a rule written confirmation and an estimate, after rule setting data was inputted, this data turns into application data.

[0015]It is a display, and when building a program, or when using a program after it generates a program, 500 displays a worksheet, and it is used in order to check data input or to check a program manipulation result. To construction of a program, and the utilization time of a program, while answering the operation from a final controlling element, and the comprehensive Management Department's 600 operating and performing access and starting of data to peripheral blocks, the timing of input and output of data, etc. will be controlled.

[0016]To determine any of the kind of worksheet are displayed, the controlling-display part 300 which answers an operational input via the comprehensive Management Department 600 has decided, and it has read from the business data file 400. The data which accompanies the read worksheet and it is also read. Data and the worksheet which were read carry out through [ of the comprehensive Management Department 600 ], and are displayed on the display 500.

[0017]As shown in the above-mentioned worksheet at drawing 3, for example, the business logic term is described and data is described to the blank section (data input part) corresponding to this business term. This example is a worksheet in the case of setting up a credit limit to a business guest. The title called "description of a customer's credit limit" as a title is set up. If operation called program construction start (or business rule setting out) from the final controlling element 501 is performed, for example, it requests a menu in reading the worksheet of this title, that title menu will appear. And with reference to a title menu, the thing which display a worksheet on a display and to do can be performed by clicking the same title "description of a customer's credit limit" concerned. The comprehensive Management Department 600 answers the input from the final controlling element 501 while carrying out by a system rising.

[0018]Since data processing contents were decided according to the item of "description a customer's credit limit", the business logic application part 200 has related \*\*\*\*\* data for the software which performs the data

processing, and a worksheet.

[0019]In a displaying condition like drawing 3 A, moreover a customer number, a company name, etc. are inputted, there is a column of an application opening day, an application end date, credit, and an application stop, and this required data is described. Application opening day 97/06/06, and the credit 200,000,000 are described by this example, and the column of the application end date and the application stop is not described. When not described, it means that data processing about this business logic item is not performed automatically.

[0020]The worksheet for creating the item list of a customer's selling merchandise is also stored. Thereby, various kinds of data (these will be called business rule information set) of a customer can be built.

[0021]After description of rule setting data required for a required worksheet finishes, the display of an end of a screen is clicked. Then, each worksheet is stored in the business data file 400. Thus, since data processing required on business was beforehand decided by the kind (contents to mean) of the rule setting data by inputting data, the program to apply will be decided to each data.

[0022]For example, in order to check a customer to the credit mentioned above at the time of actual use, when application data is inputted, it must be judged whether the application data is suitable. Then, application data is compared to credit (business information set), and maximum check processing in which it is judged whether application data is over the value of a business rule information set is performed.

[0023]That is, by this invention, the application software for business was thoroughly divided into business logic and program logic (computer logic) in accordance with the fixed standard, and the composition of the device is considered. The item expressed as business work sheets (business papers) by these as a fixed standard here is targeted for the extraction separation of a check, the data, etc. as a computer screen and a computer list.

[0024]The commercial transaction know how system data constellation in these (element of the meaningful minimum unit of determining the contents of the commercial transaction contract), It classifies into the item of a mission-critical task system data constellation (element of the meaningful minimum units, such as an in-company rule for carrying out a contract), and a calculation system data constellation (meaningful minimum units, such as an accounting rule based on the commercial law, tax law, and the Securities Exchange Act), and matches with the application software which should process these. That is, they are a maximum, a minimum check, an existence check, and total processing.

[0025]Like the above, by carrying out separation arrangement, as application software, only the mechanism of processing these items remains as program logic, and this is business OS. And if the contents to mean understand the item on the above-mentioned business, what it remains in will be only mere data. These are business data.

[0026]As a result, the software (business OS) stored in the business logic application means, Application data (data inputted when this invention device is used at a actual commercial transaction etc.), It is a software group which performs maximum check processing, minimum check processing, existence check processing, and total processing using the business rule information set (beforehand saved as a database) corresponding to this.

[0027]It returns and explains to drawing 3. Construction of the database using a worksheet is performed like drawing 3 (A) mentioned above. The above-mentioned example explained the example which sets up credit

to a certain correspondent firm. In addition, the data of the list database of a customer's company, the database of the selling merchandise of the customer concerned, the unit price of each selling merchandise, quantity information, etc. can also be built.

[0028]Drawing 3 (B) shows the example of the application screen when there is an order received from customer ABCDE. In this case, an application worksheet will be read as a worksheet and the information which came to hand as shown in a figure will be inputted into a required part. That is, they are a customer code, a customer name, a bar code, a unit price, quantity, the amount of money for ordering, etc. Such data is inputted and it is ordered a start. The controlling-display part 300 displays the title of an application worksheet by switching the worksheet of the above-mentioned application screen to application mode in the final controlling element 501, and requiring the menu of an application screen. That title will be clicked if a "order received" exists in the title of hope, and this case.

[0029]The application screen of drawing 3 (B) can be obtained on the display 500 by this operation. After this, a user will input data. If a reference start is operated here, judgment (maximum check processing) whether the amount of money for ordering is over credit will be performed. As for the software at this time, the business logic application part 200 will choose and perform software for maximum check processing automatically by recognizing the item called amount of money for ordering. It will be displayed on the display 500 as the obtained data "is over the credit limit" via the controlling-display part 300 and the comprehensive Management Department 600 as a result of this processing. [ "it being in a credit limit", or ]

[0030]Drawing 4 has an association table of a worksheet, the business logic term described by each worksheet, the worksheet group data in which this business logic term exists, and application software. By having this table, that correspondence business logic term when the worksheet accessed on the present display 500 is recognized and data input occurs will be recognized, and application software will be determined. The data of the result obtained with the application of software will return as a screen on a display again. The table of drawing 4 may be described by the block [ which / of the business logic application part 200 or the business data file 400 ].

[0031]The above-mentioned embodiment showed the fundamental principle of this invention. This invention is not limited to the above-mentioned embodiment, and a business logic term is shown on behalf of a mere part. It becomes a judgment source of the software which all the items of classes, such as various kinds of checks, a list, an approval check, correspond to the business logic term of this invention, and a business logic application part chooses.

[0032]Drawing 5 is a lineblock diagram showing this invention concretely further.

[0033]Drawing 2 and identical codes are given to the block shown in drawing 2, and the corresponding portion. In drawing 2, a worksheet and the data given to the item described by this worksheet classified and showed the data of the business data file 400.

[0034]In drawing 5, it divides according to the character of data further. As character of data, there are simple data in which rewriting etc. are performed frequently, and semipermanent data, in this figure, simple data is brought together in a business data recording part, and semipermanent data is brought together in the CDC Records Department.

[0035]The data of a business data recording part is classified according to a kind, and the seed division is carried out at the commercial transaction Records Department, the Records Department of operating

employment, and the Records Department of rules, such as various regulations.

[0036]When rewriting of these data is performed, the result remains as record (history).

[0037]As record of a commercial transaction, record of what kind of dealings to have conducted with what company when remains. As record of operating employment, the history data on record of the data of progress of achievements and the history data of accounting and personnel management is recorded. As record of a business rule, the data the data [ for various kinds of regulations ], for example, change of work rules, back and before change and the data change before of the credit limit a customer's company and after change are stored. The information on purchase quantity change of the handling goods of a customer's company, etc. are recorded. It is used as the Records Department of the value of a case as the marketing specialist discounted and sold special selling merchandise, for example.

[0038]The data of the CDC Records Department is also classified according to a kind, and the seed division is carried out at Records Department parts, such as the Records Department, such as the Records Department of a rule applicable rule, and a screen layout, and a list layout. As drawing 4 explained, for example, the table showing the correspondence relation of the software relevant to the logic term of a worksheet and this logic term is described by the rule application part.

[0039]In the above-mentioned explanation, in order to function intelligibly, the separate block shows the comprehensive Management Department 600, the business logic application part 200, and the controlling-display part 300, but as for these, it is needless to say that it may be unified.

[0040]The rule-setting-data input part for inputting an application day exists as a business logic term which sets a business rule as a worksheet in the above-mentioned system. As an application day, an application opening day and an application end date exist, and each data input part exists. In order to input an application day, in a rule setting means, a means to require the input of a cryptographic key accompanies and it operates.

[0041]When it seems that he would like to suspend import of some goods from two or more companies which suited in the customer until now when such a function existed, and the company of a customer when it seems that him would like to interrupt dealings, the final controlling element 501 is operated immediately and rule setting data can be changed. For this reason, an employment speed due to occupational cases can be accelerated, and it is reliable. Also when the rate of foreign currency changes, it can respond immediately by changing rule setting data.

[0042]In this system, since the business rule data which recorded the past rule exists, calculation of the data which came to hand at the past rate now can also be performed easily.

[0043]After drawing 6, association tables, such as a screen which shows the concrete table on the business further provided in the business logic application part 200, and is used with each disposal of business affairs and a work breakdown, a ledger which records data, and ledgers, are made intelligible. A disposal-of-business-affairs standard is shown in drawing 6 thru/or drawing 17, and one by one from the column of \*\*\*\* Computer disposal of business affairs (a disposal-of-business-affairs minimum unit standard / computer standard operation procedure), The column of the slip kind (a reissue-of-vouchers standard / screen design standard) which records rule setting-out business, quotient style business, a physical distribution service, golden style business, manufacture business, and a mission-critical task, the ledger and ledgers which record a mission-critical task, a commercial law standard, accounting standards, a taxation business

standard, and a \*\*\*\* standard is provided. A round mark means a flag here.

[0044]For example, the following is meant if NO.17 of drawing 6 is seen. The contents of processing in the case of establishing the transaction account of a sale place are described here. Performing this processing will perform rule setting-out business. In order to perform this processing, the item called establishment of the transaction account of a sale place out of a menu will be clicked. Then, in order to perform account establishment, the establishment check of a sales transaction account is displayed on a screen. The data inputted and described while looking at a screen in this check is described by the sales customer ledger (file) as sales customer data. When such data is extended, a commercial law standard, accounting standards, a taxation business standard, and a \*\*\*\* standard will be applied. In drawing 8, if No.79 is seen, the following meanings are described. It is the shipping instruction of selling merchandise and this is a class of quotient style business. This data will be described by the shipping instruction ledger, if the shipping instruction document of selling merchandise is read on a screen and the data input (permission, quantity, etc.) by an operator occurs, in issuing directions. Since stock etc. are calculable using this data, the software to be used can be defined beforehand. For example, when processing No.111 of drawing 9, it can use.

[0045]Thus, by building the table of a disposal-of-business-affairs standard, the database in connection with each business can be built. And when treating these data, the software used automatically can be decided.

[0046]When performing ordering business and ordering business, the contents (rule) by which the device of this invention operates are table-ized in drawing 18 thru/or drawing 21, and are shown in it. Drawing 18 and drawing 19 show one table, and drawing 20 and drawing 21 show one table. This table shows the logic of a disposal-of-business-affairs rule and a disposal-of-business-affairs rule, the application item of a disposal-of-business-affairs rule, and the inspection item sequentially from the left column. For example, when the check of the purchase goods of No.1 of drawing 18 is chosen from a menu, this is conducting the inspection which can purchase purchase goods. On a screen, the screen for inputting the name and code of purchase goods appears. If suitable data is inputted looking at this screen, an inspection will be started by the basis of judgment of the business logic application part 200. The inspection of the existence of a customer and a customer organization is performed automatically, looking at a database as an inspection. When the check of the number of inventory fitness of the purchase goods of No.6 and the propriety of inventory figures are chosen from menus, the fitness quantity of stock of purchase goods will be inspected. An ordering number is inputted into the item called order of the purchase goods of an item which appeared on the screen at this time. Then, the check of an inventory limit number is performed automatically. This is a maximum check of whether stock is over the ordering number. A goods' in question existence check is performed before that.

[0047]Drawing 22 and drawing 23 show the table of the business rule applied when performing an order order received and checking a person's in charge existence. One table is built by drawing 22 and drawing 23.

[0048]In the table mentioned above, although explained on behalf of the part, it is similarly used about other items.

[0049]Next, operation of the user at the time of introducing the device of this invention will be explained briefly.

[0050]A new working device is built by the data control type business application recorded, for example on the recording medium. Then, this application is installed in a computer body using a setup program.

[0051]Drawing 24 shows operation in the preparatory step which uses this invention device on business. Management of an overall unit is performed at the comprehensive Management Department 600, and the order of operation of each unit, data search, data output, etc. are controlled.

[0052]Processing of the item where the flag stands on the column of rule setting-out business among the tables shown after drawing 6 is performed at the time of a preparatory step. When operation is first performed through a final controlling element and it uses it on an operating aspect of practical use, the operating employment screen (worksheet) for preparing a data file from an employment preparation menu is displayed on a display (Step a1, a2). Next, looking at a screen, a business information set is inputted into the blank section of a suitable item (Step a3), and a business-use data file is built. When setting up work rules, it will realize by the same manipulation routine.

[0053]Drawing 25 shows the operation instances in the case of using the database (CDC) built as mentioned above. A transaction processing menu is displayed, and if the item which is applicable from the inside is chosen (Step b1), it will change to the disposal-of-business-affairs screen (Step b2) corresponding to the item. Here, a user inputs required using data, looking at a disposal-of-business-affairs screen (b3). Then, corresponding to the kind of the using data, based on the table shown in drawing 6 thru/or drawing 23, the business logic application part 200 determines required software mentally, and displays the processing result (Step b4). A user will redo, seeing this result or comprehension will be judged (Step b5).

[0054]Drawing 26 shows the procedure used when it is necessary to change work rules. Operation of a work-rules change key will perform the keystroke demand of a password (c1, c2). this -- anyone -- although -- it is because it is set up not change work rules freely. When there is an input of a password, like the time of being previous preparation, a preparation menu will be displayed and a user will choose from this inside the item which wants to change a rule (Step c3). And if a work-rules setting screen appears, the input of condition data will be performed into a required portion (Step c5).

[0055]Next, some examples of use are described and seen.

[0056](1) Advance preparations of the Example (a) ordering business in the case of inspecting a sales customer's account on ordering business -- A sales customer's registration is performed in this preparation.

[0057](b) Actual ordering operating time -- The inspection of whether advanced registration of the sales customer is carried out is conducted.

[0058](2) Advance preparations of the Example (a) ordering business in the case of inspecting credit on ordering business -- A sales customer's registration, registration of a sales customer's credit.

(b) Actual ordering operating time -- The inspection of whether the sum total of a sales customer's amount of an account receivable and order volume is over credit is conducted.

[0059](3) Advance preparations of the Example (a) ordering business in the case of inspecting a person's in charge official authority on ordering business -- A person's in charge registration and registration of the upper limit amount a person's in charge sales authority.

[0060](b) Actual ordering operating time -- It is inspected whether the sum total of order volume is over the upper limit amount of a person's in charge sales authority.

[0061]This invention is not limited to the above-mentioned embodiment, and various kinds of embodiments are possible for it.

[0062]Drawing 27 has connected between the display 500 and the new working devices 1000 with the data-



communications receiving sets (modem) 701 and 702. If it does in this way, processing of business data and setting out of a business rule can be performed through a network from a remote area. In this case, the software for controlling transceiving equipment will be installed in the hardware of a recording medium or a new working device.

[0063]Drawing 28 shows that it is prepared in the language of two or more countries as a business data file as a language of the screen which appears on the term and display. If it has such composition, the thing which will be done in each country and to do is possible for this system. Of course, the language choice function is provided at the comprehensive Management Department 600 in this case, and the user can set up language through the final controlling element 501.

[0064]This invention is not limited to above-mentioned working example, and the function on which two or more displays 500 are made to display a business-use processing screen (worksheet) etc. is also provided with it in the controlling-display part 300. That is, it is also possible to process displaying and comparing the checks 1, 2, and 3, as shown in drawing 29 (A). When data is inputted into the data input part of a worksheet, the priority of the data processing may be decided beforehand and at least processing order may be made to be decided by operation. As shown in drawing 29 (B), of course, two or more items may exist in a check as a data input part. Also in this case, the user could be made to decide a data-processing order, and a data-processing order could be decided automatically. Although it is natural, in this system, data processing was not performed and the portion without data input is come.

[0065]The example of use of the device of this invention is explained further.

[0066]The rule setting screen in the case of performing rule setting out for an existence check is shown in drawing 30 (A), and the example of the application screen for an existence check is shown in drawing 30 (B). In a rule setting screen, there is an item of a customer code, a customer name, a transaction start day, a transaction end day, and an application stop. Now, suppose that the order No, date of order 95/06/06, and the customer code 0300 were inputted in an application screen. Then, it exists in a data file, since a transaction start day is also a suitable range, this customer can order, and that customer's information, a bar code, a trade name, etc. are displayed. When a customer does not exist or the transaction end day has passed at this time, an alarm display or a beep sound is outputted.

[0067]The rule setting screen in the case of performing rule setting out for the maximum check of a person's in charge sales amount authority is shown in drawing 31 (A), and the example of the application screen for a maximum check is shown in drawing 31 (B). In a rule setting screen, there is an item of a person-in-charge code, an application opening day, an application end date, sales amount authority, and an application stop. Suppose that the person in charge inputted order date 97/01/[ the person-in-charge code 95010 and ] 30, a customer X company, a bar code, a trade name, quantity, a unit price, etc. now in the application screen of an order received. Then, in an application screen, total software carries out autonomous working and computes the total amount. After that, the software for a check operates and it is judged whether an application day is suitable in whether it is in sales amount intra vires again. Altogether, since it is suitable, nothing appears that it is an example of a figure, it twists and warning does not appear.

[0068]The rule setting screen in the case of describing goods delivery business days and performing rule setting out is shown in drawing 32 (A), and the example of the application screen for a minimum check is shown in drawing 32 (B). In a rule setting screen, there is an item of a bar code, a trade name, an application

opening day, an application end date, delivery necessary days, and an application stop. Suppose that the person in charge inputted order date 97/07/07, delivery date 97/07/10, a bar code, a trade name, quantity, and a unit price now in the application screen of an order received. In this case, a bar code is checked and order date +two days (delivery necessary days) are calculated. In this case, it is set to 97/07/09. On the other hand, the delivery dates which the user wished are 97/07/10. Therefore, in this case, it is minimum check processing and becomes the judgment of ordering permission.

[0069]The rule setting screen which performs rule setting out of the sales set of goods as an example of a unit check is shown, the example of the application screen of an order received is shown in drawing 33 (B), and it is in drawing 33 (A). In a rule setting screen, there is an item of a bar code, a trade name, an application opening day, an application end date, a sales set, and an application stop, and data is inputted into each.

[0070]Now, in an application screen, an order received is performed and suppose that order date 97/03/03, the bar code 4531213, the quantity 100, etc. were inputted. Then, in this case, since quantity is the multiple 100 of 50, it serves as a judgment of ordering permission.

[0071]It belongs to editing processing at drawing 34 (A), and the rule setting screen for describing the goods unit price according to quantity is shown. The example of the application screen of an order received is shown in drawing 34 (B). In a rule setting screen, there is an item of a bar code, a trade name, an application opening day, an application end date, the quantity range, a unit price, and an application stop.

[0072]Now, suppose that order date 97 / 06/01 were inputted, the bar code 4531213 was inputted, and 250 quantity was inputted in an application screen. Then, an order can be received satisfactorily in this case and, in the case of 205 quantity, according to rule setting data, a unit price is 90 yen. Therefore, the data called this 90 is read and it is indicated by edit at the column of a unit price. And a calculation function works, the operation of 90x250 is performed, and the display of 22,500 is performed in the column of the amount of money.

[0073]An above-mentioned rule setting screen and application screen only showed an example, and various kinds of modification implementation is possible for this invention.

[0074]Although the new working device 1000 was installed in the computer system by recording media, such as an optical disc, and being explained by the above-mentioned explanation as that by which each manipulation routine is built, it does not restrict to this. New working device 1000 self may be built considering the business logic application part 200, the controlling-display part 300, and the comprehensive Management Department 600 as hardware. The business data file 400 may also comprise a hardware memory, and may comprise a recording medium which only this portion can detach and attach freely, for example, a disk. When attachment and detachment of a business data file part were enabled and change correction of the design and layout of a worksheet is made, it can transpose to a new thing.

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[Translation done.]

**\* NOTICES \***

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1]The figure showing the underlying concept of this invention.

[Drawing 2]The figure showing the entire configuration of the 1 embodiment of this invention.

[Drawing 3]The figure showing the example of the screen at the time of use of the device of this invention.

[Drawing 4]The figure showing the example of the table of a business logic application part.

[Drawing 5]The figure showing the still more detailed composition of the device of this invention.

[Drawing 6]The figure showing the example of the table of a business logic application part or a data file.

[Drawing 7]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 8]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 9]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 10]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 11]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 12]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 13]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 14]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 15]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 16]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 17]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 18]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 19]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 20]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 21]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 22]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 23]The figure showing the example of the table of a business logic application part or a data file similarly.

[Drawing 24]The figure showing an operation routine when using this invention device.

[Drawing 25]The figure showing an operation routine when using this invention device similarly.

[Drawing 26]The figure showing an operation routine when using this invention device similarly.

[Drawing 27]The figure showing other examples of this invention device.

[Drawing 28]The figure showing other display examples of this invention device.

[Drawing 29]The figure showing other display examples of this invention device.

[Drawing 30]The figure showing the example of a screen at the time of use of this invention device.

[Drawing 31]The figure showing the example of a screen at the time of use of this invention device similarly.

[Drawing 32]The figure showing the example of a screen at the time of use of this invention device similarly.

[Drawing 33]The figure showing the example of a screen at the time of use of this invention device similarly.

[Drawing 34]The figure showing the example of a screen at the time of use of this invention device similarly.

[Description of Notations]

100 -- Computer body

200 -- Business logic application part,

300 -- Controlling-display part,

400 -- Business data file,

500 -- Display,

600 -- The comprehensive Management Department.

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[Translation done.]

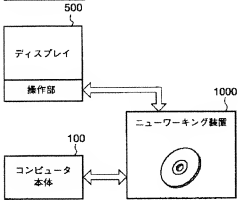
\* NOTICES \*

JP0 and INP1T are not responsible for any damages caused by the use of this translation.

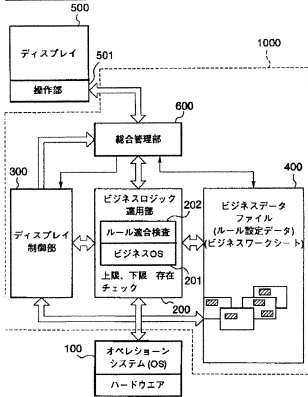
- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DRAWINGS

[Drawing 1]



[Drawing 2]



[Drawing 3]

A )

販売取引先の与信額の記述			
取引先 NO. 020010		取引先名 ABCDE社	
適用開始日	適用終了日	与信額	適用停止
97/06/06	00/00/00	200,000,000	
		<div>終了 取消</div>	

[設定画面]

[ B )

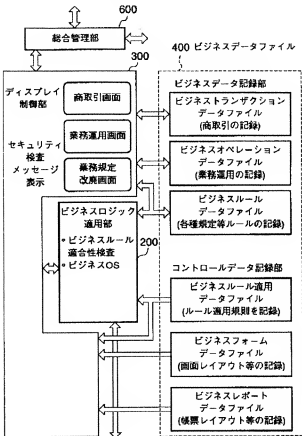
受注	
取引先 NO. 020010 取引先名 ABCDE社	
商品コード	XX0001 単価 XXXX 数量 YYYY
受注金額 000000	

[適用画面]

[Drawing 4]

ビジネス用語	ワークシート	適用ソフトウェア (上取X下取X存在X累計)
日 付	0 0 0 0 0	存在
取引先NO.	0 0 0 0 0	存在
商品コード	0 1 0 0 0	存在
受注金額	1 0 1 0 0	上取
⋮	⋮	⋮

[Drawing 5]



コンピュータ業務処理ルール規格(受注・発注)

No.	農産物取組ルール	農産物取組ルールのロジック
1	生産者の地域	本市の生産者(基町町民)の概要
2	生産者の形態	農協の前身となる協会の概要
3	生産者の組織関係の経緯	協会の組織及び関係で定まる農産物の概要
4	生産者の事業目的の沿革	組織(農協、工業、商業、農業、林業等)の事業目的の沿革
5	組織の組織関係の沿革	組織の組織及び関係で定まる農産物の概要
6	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
7	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
8	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
9	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
10	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
11	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
12	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
13	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
14	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
15	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
16	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
17	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
18	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
19	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
20	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
21	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
22	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
23	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
24	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
25	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
26	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
27	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
28	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
29	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
30	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
31	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
32	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
33	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
34	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
35	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
36	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
37	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
38	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要
39	生産者(農協)の組織	農協の組織及び関係で定まる農産物の概要

## コンピュータ業務処理規格

[illegible]

コンピュータ業務処理規格

No.	品名	単位	数量		備考	金額		備考	金額		備考	合計	備考
			数量	単位		金額	単位		金額	単位			
1	コンピュータ業務用紙	1000枚	1000	枚		1000	円		1000	円		1000	円
2	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
3	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
4	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
5	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
6	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
7	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
8	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
9	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
10	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
11	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
12	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
13	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
14	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
15	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
16	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
17	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
18	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
19	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
20	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
21	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
22	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
23	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
24	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
25	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
26	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
27	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
28	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
29	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
30	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
31	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
32	（業務用紙用紙）	1000枚	1000	枚		1000	円		1000	円		1000	円
33	（業務用紙用												

[Drawing 23]

コンピュータ業務処理ルール規格(受注・発注)

[illegible]

[Drawing 8]

## コンピュータ業務処理規格

No.	コンピュータ業務系職種 (業務担当者の職位基準 / コンピュータ業務担当基準)	フル タイム 勤務 要否	海外 派遣 要否	新卒 採用 要否	基幹業務を記録する伝票類 (業務基準 / 関係設計基準)	基幹業務を記録 する帳簿・伝票類 (記帳基準・データ ファイル設計基準)	取得試験		
							南 海	金 沢	福 井
61	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
62	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
63	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
64	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
65	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
66	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
67	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
68	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
69	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
70	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
71	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
72	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
73	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
74	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
75	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
76	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
77	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
78	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
79	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
80	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
81	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
82	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
83	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
84	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
85	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
86	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
87	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
88	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
89	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
90	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
91	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
92	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
93	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
94	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
95	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
96	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
97	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
98	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
99	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○
100	基幹業務担当能力者	○	○	○	基幹伝票類全般	基幹伝票全般	○	○	○

[Drawing 9]



[illegible]

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graph TD
    Start([スタート]) --> A1[準備メニュー表示、項目選択]
    A1 --> A2[業務運用画面]
    A2 --> A3[データ入力]
    A3 --> End([エンド])
  
```

The flowchart illustrates the process of the first embodiment. It begins with a 'スタート' (Start) terminal, followed by a process block '準備メニュー表示、項目選択' (Preparation menu display, item selection) labeled 'a1'. This is followed by another process block '業務運用画面' (Business operation screen) labeled 'a2', and then a third process block 'データ入力' (Data input) labeled 'a3'. The process concludes at an 'エンド' (End) terminal.

№	コンピュータ業務動向 (業務組織最小単位基準/ コンピュータ業務別動向基準)	人数 増加率 減少率	特長 改善率	製造 改善率	業務改善 率を記録する伝聞率 (伝聞基準/年度設計基準)	業務改善を記録する伝聞・光臨率 (伝聞基準/リアル設計基準)	再訪 基準率	設計 基準率	設計 改善率
1	コンピュータ業務動向								
2	コンピュータ業務動向								
3	コンピュータ業務動向								
4	コンピュータ業務動向								
5	コンピュータ業務動向								
6	コンピュータ業務動向								
7	コンピュータ業務動向								
8	コンピュータ業務動向								
9	コンピュータ業務動向								
10	コンピュータ業務動向								
11	コンピュータ業務動向								
12	コンピュータ業務動向								
13	コンピュータ業務動向								
14	コンピュータ業務動向								
15	コンピュータ業務動向								
16	コンピュータ業務動向								
17	コンピュータ業務動向								
18	コンピュータ業務動向								
19	コンピュータ業務動向								
20	コンピュータ業務動向								
21	コンピュータ業務動向								
22	コンピュータ業務動向								
23	コンピュータ業務動向								
24	コンピュータ業務動向								
25	コンピュータ業務動向								
26	コンピュータ業務動向								
27	コンピュータ業務動向								
28	コンピュータ業務動向								
29	コンピュータ業務動向								
30	コンピュータ業務動向								
31	コンピュータ業務動向								
32	コンピュータ業務動向								
33	コンピュータ業務動向								
34	コンピュータ業務動向								
35	コンピュータ業務動向								
36	コンピュータ業務動向								
37	コンピュータ業務動向								
38	コンピュータ業務動向								
39	コンピュータ業務動向								
40	コンピュータ業務動向								
41	コンピュータ業務動向								
42	コンピュータ業務動向								
43	コンピュータ業務動向								
44	コンピュータ業務動向								
45	コンピュータ業務動向								
46	コンピュータ業務動向								
47	コンピュータ業務動向								
48	コンピュータ業務動向								
49	コンピュータ業務動向								
50	コンピュータ業務動向								

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No.	コンピュータ家庭用種 (業務処理用小型用基幹/ コンピュータ業務処理基幹)	小 ル ン ド 数 定 義 性	特殊 装置	全 装 置 基 準	基幹業務を記述する伝票用 (伝票基幹・両面設計基幹)	基幹業務を記述する伝票用 (伝票基幹・両面設計基幹)		国 計 基 準	種 取 基 準	種 取 基 準
						基 準 業 務 記 述 用 伝 票 基 準	基 準 業 務 記 述 用 伝 票 基 準			
161	国計取扱いの業務				国計取扱い業務	国計取扱い業務	国計取扱い業務			
162	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
163	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
164	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
165	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
166	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
167	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
168	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
169	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
170	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
171	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
172	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
173	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
174	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
175	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
176	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
177	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
178	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
179	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
180	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
181	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
182	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
183	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
184	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			
185	国計取扱いの業務の修正				国計取扱い業務の修正	国計取扱い業務の修正	国計取扱い業務の修正			

No.	コンピュータ業務用途 (業務用機器の小売店並み/ コンピュータ業務用電機店)	ル ー ト 別 定 義 範 疇	特 売 店 名	特 売 品 名	全 店 品 名	基幹業務を記録する仏票用	基幹業務を記録 する台帳・電帳用	会計 ソフト	金 計 算 機	駐 取 扱
						(起算基準・国産設計基準)	(記録基準・データ ファイル設計基準)			
319	数値の処理業務を主とする訂正装置				○	数値処理型訂正装置	同上			
320	数値の処理業務を主とする受取振替用				○	数値処理型受取振替装置	同上			
321	製品の出庫予定の装置				○	製品出庫予定装置	製品出庫予定装置			
322	製品の出庫予定の訂正装置				○	製品出庫予定訂正装置	同上			
323	製品の出庫予定の受取振替用				○	製品出庫予定受取振替装置	同上			
324	製品の受取振替の装置				○	製品出庫受取振替装置	製品出庫受取振替装置			
325	製品の受取振替の訂正装置				○	製品出庫受取振替訂正装置	同上			
326	製品の受取振替の受取振替用				○	製品出庫受取振替受取振替装置	同上			
327	製品の受取振替の受取振替用				○	製品出庫受取振替受取振替装置	同上			
328	製品の出庫装置				○	製品出庫装置	製品出庫装置			
329	製品の出庫装置				○	製品出庫装置	製品出庫装置			
330	製品の出庫装置				○	製品出庫装置	製品出庫装置			
331	製品の出庫装置				○	製品出庫装置	製品出庫装置			
332	製品の出庫装置				○	製品出庫装置	製品出庫装置			
333	製品の出庫装置				○	製品出庫装置	製品出庫装置			

[illegible]

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No.	コンピュータ関連資格 (専修科を除く小専攻科目/ コンピュータ教育指導員(専修科))	レベル 認定 資格 番号	認定 年度	全 体 実 績	製 造 業 実 績	専修科教育を担った専任講師 (配属専修科/画面設計専修科)	専修科教育を担った すべての専任講師 (配属専修科/データ ファイル設計専修科)		異 動 出 身 者 数	異 動 入 身 者 数	指 定 数 率
							異 動 出 身 者 数	異 動 入 身 者 数			
118	第3級コンピュータ修習者	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
119	第2級コンピュータ修習者	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
120	第1級コンピュータ修習者	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
121	第3級の実務修習者	○	○	○	○	第3級実務修習期間満了者	第3級実務修習者	○	○	○	○
122	第2級の実務修習者	○	○	○	○	第2級実務修習期間満了者	第2級実務修習者	○	○	○	○
123	第1級の実務修習者	○	○	○	○	第1級実務修習期間満了者	第1級実務修習者	○	○	○	○
124	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
125	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
126	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
127	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
128	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
129	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
130	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
131	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
132	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
133	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
134	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
135	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
136	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
137	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
138	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
139	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
140	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
141	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
142	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
143	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
144	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
145	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
146	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
147	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者	○	○	○	○
148	第3級修習者(専修科)	○	○	○	○	第3級修習期間満了者	第3級修習者	○	○	○	○
149	第2級修習者(専修科)	○	○	○	○	第2級修習期間満了者	第2級修習者	○	○	○	○
150	第1級修習者(専修科)	○	○	○	○	第1級修習期間満了者	第1級修習者				

[illegible]

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## コンピュータ業務処理規格

No.	コンピュータ業務領域 (業務知識最小単位基準・ コンピュータ業務関連基準)	ル ー ト 別 定 定 義 規 格	職業基礎 知識・技能	金 銭 知 識・技能	語 言 知 識・技能	基本業務を記録する伝票票面 (記録基準・画面設計基準)	基本業務を記録 する伝票票面 (記録基準・データ ファイル設計基準)		金 銭 知 識・技能	語 言 知 識・技能	証 書 取 得 率
							伝票票面設計基準	データファイル設計基準			
250	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
251	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
252	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
253	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
254	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
255	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
256	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
257	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
258	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
259	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
260	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
261	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
262	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
263	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
264	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
265	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
266	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
267	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
268	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
269	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
270	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
271	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
272	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
273	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
274	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
275	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
276	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
277	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
278	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
279	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
280	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
281	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
282	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
283	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
284	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
285	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
286	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
287	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
288	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
289	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
290	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
291	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
292	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
293	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
294	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
295	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
296	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
297	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
298	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
299	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○
300	顧客の出品手続の訂正報告	○	○	○	○	○	○	○	○	○	○

[Drawing 16]

コンピュータ業務処理規格

[illegible]

[Drawing 18]

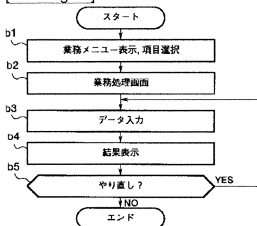
[illegible]

http://www4.ipdl.inpit.go.jp/cgi-bin/tran web cgi ejje?atw u=http%3A%2F%2Fwww4.ipdl.inpit.go.jp%2... 9/1/201

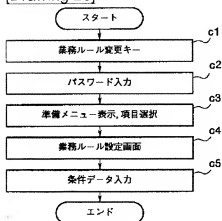
コンピュータ業務処理ルール規格(免注)

№	業務処理ルール	業務処理ルールのロジック
1	業務処理の準備	業務処理の準備作業の開始
2	業務処理の準備作業の開始	業務処理の準備作業の開始
3	業務処理の準備作業の開始	業務処理の準備作業の開始
4	業務処理の準備作業の開始	業務処理の準備作業の開始
5	業務処理の準備作業の開始	業務処理の準備作業の開始
6	業務処理の準備作業の開始	業務処理の準備作業の開始
7	業務処理の準備作業の開始	業務処理の準備作業の開始
8	業務処理の準備作業の開始	業務処理の準備作業の開始
9	業務処理の準備作業の開始	業務処理の準備作業の開始
10	業務処理の準備作業の開始	業務処理の準備作業の開始
11	業務処理の準備作業の開始	業務処理の準備作業の開始
12	業務処理の準備作業の開始	業務処理の準備作業の開始
13	業務処理の準備作業の開始	業務処理の準備作業の開始
14	業務処理の準備作業の開始	業務処理の準備作業の開始
15	業務処理の準備作業の開始	業務処理の準備作業の開始
16	業務処理の準備作業の開始	業務処理の準備作業の開始
17	業務処理の準備作業の開始	業務処理の準備作業の開始
18	業務処理の準備作業の開始	業務処理の準備作業の開始
19	業務処理の準備作業の開始	業務処理の準備作業の開始
20	業務処理の準備作業の開始	業務処理の準備作業の開始
21	業務処理の準備作業の開始	業務処理の準備作業の開始
22	業務処理の準備作業の開始	業務処理の準備作業の開始
23	業務処理の準備作業の開始	業務処理の準備作業の開始
24	業務処理の準備作業の開始	業務処理の準備作業の開始
25	業務処理の準備作業の開始	業務処理の準備作業の開始
26	業務処理の準備作業の開始	業務処理の準備作業の開始
27	業務処理の準備作業の開始	業務処理の準備作業の開始
28	業務処理の準備作業の開始	業務処理の準備作業の開始
29	業務処理の準備作業の開始	業務処理の準備作業の開始
30	業務処理の準備作業の開始	業務処理の準備作業の開始

[Drawing 25]



[Drawing 26]

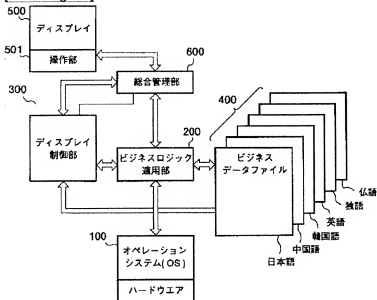


[Drawing 21]

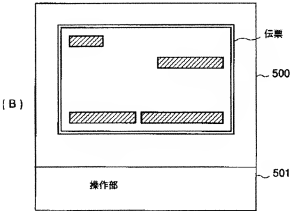
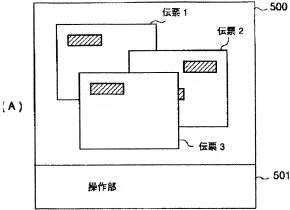
(乾隆)

[illegible]

[Drawing 28]



[Drawing 29]



[Drawing 30]

存在チェック

(A)

購取引先の記述				
取引先コード	取引先名	取引開始日	取引終了日	適用停止
0100	A社	91/01/10	00/00/00	
0200	B社	92/08/08	93/01/20	
0300	C社	93/07/07	00/00/00	
0400	D社	92/05/05	00/00/00	
0500	E社	94/07/09	00/00/00	

[設定画面]

発注取引先として存在するのでOK

(B)

要 注	
発注NO. 0501	発注担当者 D氏
発注日 95/06/06	取引先コード 0300 C社
商品コード 4531213	商品名 ABC装置
.....	
.....	

[適用画面]



## [Drawing 31]

上段チェック

(A)

担当者の販売金額権限				
担当者コード 95010				
適用開始日	適用終了日	販売金額権限	適用停止	
95/04/01	96/03/31	500,000		
96/04/01	97/03/31	700,000		
97/04/01	00/00/00	1,000,000		

【設定画面】

(700,000以下なのでOK)

(B)

受 注				
発注NO. 970509		発注担当者コード 95010		
発注日 97/01/30		取引先 X社		
商品コード	商品名	数量	単価	金額
0100	ABC装置	10	100	1000
0200	XYZ装置	10	150	1500
合計金額				2500

【適用画面】

## [Drawing 32]

下段チェック

(A)

商品納入所要日数の記述				
商品コード	4531213	商品名	ABC装置	
適用開始日	適用終了日	納入所要日数	適用停止	
94/04/01	95/03/31	5		
95/04/01	96/03/31	4		
96/04/01	97/03/31	3		
97/04/01	00/00/00	2		

【設定画面】

受注日+2日より納入期日が大きいのでOK

(B)

受 注				
発注NO. 01040		取引先 Z社		
発注日 97/07/07		納入期日 97/07/10		
商品コード	4531213	商品名	ABC装置	
数量	100	単価	95	金額 9500

【適用画面】

## [Drawing 33]

単位チェック

(A)

商品の販売セット				
商品コード	4 5 3 1 2 1 3	商品名	ABC設置	
適用開始日	適用終了日	販売セット	適用停止	
95/04/01	96/03/31	10		
96/04/01	97/03/31	50		
97/04/01	00/00/00	100		

【設定画面】

(50の倍数なのでOK)

(B)

受 注	
発注NO. 01030	受注担当者 B氏
発注日 97/03/03	取引先 X社
商品コード 4531213	商品名 ABC設置
数量 100	単価 95
	金額 9,500

【適用画面】

## [Drawing 34]

編集

(A)

数量別の商品単価の記述					
商品コード	4531213	商品名 ABC装置			
適用開始日	適用終了日	数量範囲		単価	適用停止
97/04/01	00/00/00	0	99	100	
97/04/01	00/00/00	100	199	95	
97/04/01	00/00/00	200	299	90	
97/04/01	00/00/00	200	399	85	

[設定画面] 単価90が該当するので  
これを画面に編集して値を設定

(B)

受 注			
発注NO.	01020	受注担当者	A氏
発注日	97/06/01	取引先	X社
商品コード	4531213	商品名	ABC装置
数量	250 個	単価	90 円
		金額	22,500 円

[適用画面]

[Translation done.]